Listing of Claims

1. (currently amended) Method of processing a sequence of video images to be displayed with a cathode ray tube display device **having a display circuit**, which method is intended to correct the distortions created by the instability of the high voltage circuit of the cathode ray tube during the displaying of said images, said method comprises:

characterizing the distortions created by the cathode ray tube, ~~and~~

for each image of the sequence to be displayed, calculating the distortions affecting ~~it~~ **each image** and generating a precorrected image comprising the inverse distortions**, and**

providing said precorrected image to the display circuit for displaying it.

2. (original) Method according to claim 1, wherein one of the distortions affecting the displaying of a current image being a global zoom varying as a function of the luminous intensity of said current image and of that of the images which precede it in the sequence to be displayed, said method comprises:

determining the global zoom created by the cathode ray tube as a function of the luminous intensity of the current image and of that of the previous images; and

for each image of the sequence to be displayed, calculating the global zoom affecting said current image and generating a precorrected image by applying the inverse of said global zoom to said current image.

3. (original) Method according to claim 1, wherein the distortions affecting the displaying of a current image being a global zoom varying as a function of the

luminous intensity of said current image and of that of the images which precede it in the sequence to be displayed and a local zoom affecting each line of said current image and varying as a function of the intensity of the line considered and of those of the lincs which precede it in said current image, said method comprises:

characterizing the global zoom created by the cathode ray tube as a function of the luminous intensity of the current image and of that of the previous images;

characterizing the local zoom created by the cathode ray tube as a function of the luminous intensity of the line considered and of that of the previous lines in the current image; and

calculating the global zoom affecting the current image and the local zooms affecting each of its lincs and generating a precorrected image by applying, to the whole image, the inverse of said global zoom and, to each of its lines, the inverse of the local zoom calculated for the line considered.

4. (original) Method according to claim 1, wherein the distortions affecting the displaying of a current image being a local zoom affecting each line of said current image and varying as a function of the beam current necessary for displaying the relevant line and the lines which precede it in said current image, said method comprises: characterizing the local zoom created by the cathode ray tube as a function of the beam current of the cathode ray tube for the relevant line and for the preceding lines in the current image; and calculating the local zooms affecting each of the lines of the current image from measurements of beam current of each of them and generating a precorrected image by applying to each of the lines of the current image the inverse of the local zoom calculated from the relevant line.

5. (original) Method according to claim 1, wherein said method comprises:

characterizing the distortions created by the cathode ray tube for reference images as a function of the tube anode voltages necessary for the display of these images; and

calculating the distortions affecting the current image from measurements of anode voltages necessary for the display of this image and generating a precorrected image comprising the inverse distortions.